

WEST Search History

DATE: Tuesday, February 21, 2006

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
		<i>DB=PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L1	(Pmepa1 or pmepa-1 or mivr1 or mivr-1) same (gene or sequence or \$1dna or protein or \$5peptide)	16

END OF SEARCH HISTORY



results of BLAST

BLASTN 2.2.13 [Nov-27-2005]

Reference:

Altschul, Stephen F., Thomas L. Madden, Alejandro A. Schäffer, Jinghui Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Res. 25:3389-3402.

RID: 1140558082-32062-97435568291.BLASTQ4

Database: All GenBank+EMBL+DDBJ+PDB sequences (but no EST, STS, GSS, environmental samples or phase 0, 1 or 2 HTGS sequences)
3,743,317 sequences; 16,630,950,921 total letters

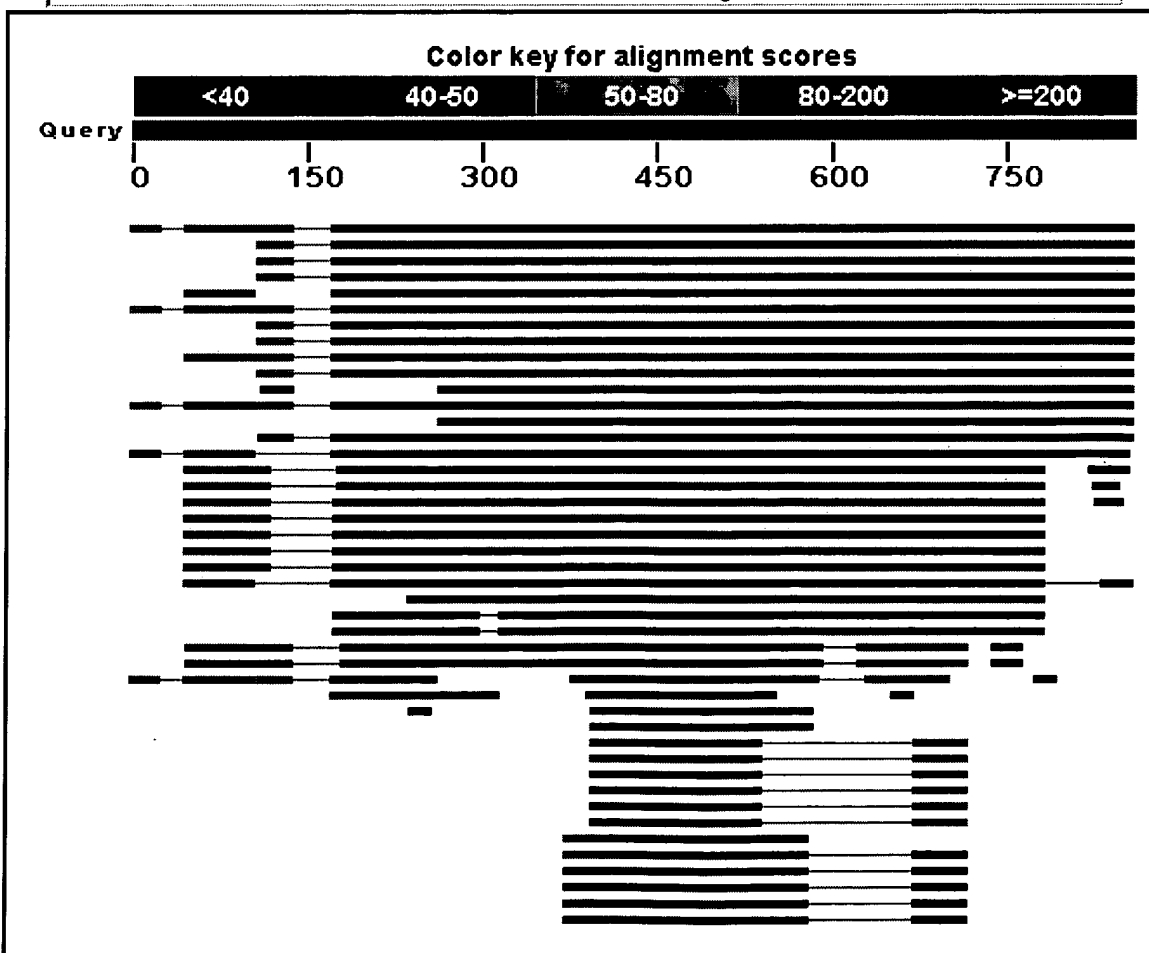
If you have any problems or questions with the results of this search please refer to the [BLAST FAQs](#)
[Taxonomy reports](#)

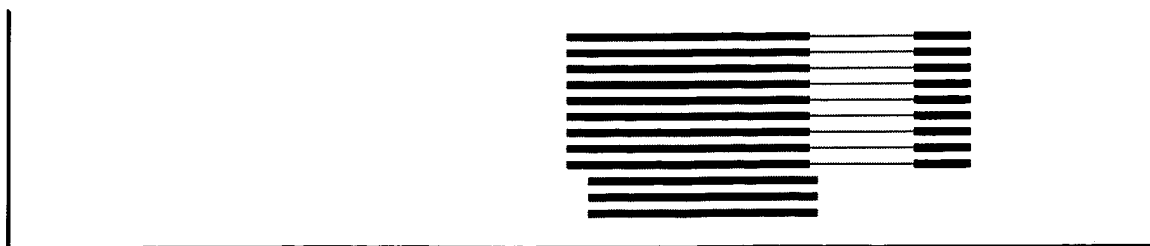
Query=

Length=861

Distribution of 140 Blast Hits on the Query Sequence

Mouse-over to show define and scores, click to show alignments





Sequences producing significant alignments:				Score (Bits)	E Value
gi|40317614|ref|NM_020182.3|	Homo sapiens transmembrane, pros...	1322	0.0		
gi|40317615|ref|NM_199169.1|	Homo sapiens transmembrane, pros...	1322	0.0		
gi|40317619|ref|NM_199171.1|	Homo sapiens transmembrane, pros...	1322	0.0		
gi|40317617|ref|NM_199170.1|	Homo sapiens transmembrane, pros...	1322	0.0		
gi|50492890|emb|CR612083.1|	full-length cDNA clone CS0DJ015YF...	1322	0.0		
gi|16303741|gb|AF305616.1|AF305616	Homo sapiens STAG1/PMEPA1 mRNA	1322	0.0		
gi|22121998|gb|AY128643.1|	Homo sapiens PMEPA1 variant A protein	1322	0.0		
gi|9255808|gb|AF224278.1|AF224278	Homo sapiens PMEPA1 protein (P	1322	0.0		
gi|16198474|gb|BC015918.1|	Homo sapiens transmembrane, prosta...	1314	0.0		
gi|51593770|gb|BC080635.1|	Homo sapiens transmembrane, prosta...	1298	0.0		
gi|11546043|emb|AL035541.15|HS718J7	Human DNA sequence from c...	1039	0.0		
gi|15824468|gb|AF305426.1|AF305426	Homo sapiens solid tumor-a...	1039	0.0		
gi|55652999|ref|XM_514746.1|	PREDICTED: Pan troglodytes LOC45836	995	0.0		
gi|73992626|ref|XM_543070.2|	PREDICTED: Canis familiaris simi...	872	0.0		
gi|82524234|emb|CR956367.12|	Pig DNA sequence from clone PigE...	644	0.0		
gi|18605637|gb|BC023092.1|	Mus musculus cDNA clone IMAGE:3989996	531	1e-147		
gi|23331176|gb|BC036995.1|	Mus musculus transmembrane, prosta...	531	1e-147		
gi|12843488|dbj|AK008976.1|	Mus musculus adult male stomach c...	529	5e-147		
gi|62027429|gb|BC092094.1|	Mus musculus cDNA clone IMAGE:3153171	529	5e-147		
gi|47124388|gb|BC069890.1|	Mus musculus transmembrane, prosta...	529	5e-147		
gi|31340603|ref|NM_022995.2|	Mus musculus transmembrane, pros...	529	5e-147		
gi|74201952|dbj|AK136450.1|	Mus musculus adult male colon cDN...	521	1e-144		
gi|62646459|ref|XM_230899.3|	PREDICTED: Rattus norvegicus tra...	464	2e-127		
gi|12004973|gb|AF220208.1|AF220208	Mus musculus Nedda4 WW doma...	450	3e-123		
gi|82887825|ref|XM_913670.1|	PREDICTED: Mus musculus similar ...	424	2e-115		
gi|32398588|emb|AL837509.11|	Mouse DNA sequence from clone RP...	418	1e-113		
gi|53133895|emb|AJ720618.1|	Gallus gallus mRNA for hypothetical	303	5e-79		
gi|71895608|ref|NM_001031492.1|	Gallus gallus similar to Tran...	303	5e-79		
gi|7161781|emb|AL121913.4|HSJ1059L7	Human DNA sequence from c...	182	1e-42		
gi|73945987|ref|XM_541100.2|	PREDICTED: Canis familiaris hypo...	178	2e-41		
gi|76651938|ref|XM_588908.2|	PREDICTED: Bos taurus hypothetical	168	2e-38		
gi|76633111|ref|XM_869738.1|	PREDICTED: Bos taurus similar to...	163	1e-36		
gi|68384134|ref|XM_679680.1|	PREDICTED: Danio rerio similar t...	157	7e-35		
gi|31790549|emb|BX005347.5|	Zebrafish DNA sequence from clone...	157	7e-35		
gi|34556291|gb|AC111069.9|	Mus musculus chromosome 18, clone ...	137	7e-29		
gi|26342572|dbj|AK052338.1|	Mus musculus 13 days embryo heart...	137	7e-29		
gi|26333688|dbj|AK040289.1|	Mus musculus 0 day neonate thymus...	137	7e-29		
gi|18490514|gb|BC022716.1|	Mus musculus DNA segment, Chr 18, ...	137	7e-29		
gi|31324574|ref|NM_172631.2|	Mus musculus DNA segment, Chr 18...	137	7e-29		
gi|66272338|gb|BC096371.1|	Mus musculus DNA segment, Chr 18, ...	137	7e-29		

gi|55647658|ref|XM 512194.1|	PREDICTED: Pan troglodytes simil...	131	4e-27
gi|22539691|gb|BC030199.1|	Homo sapiens chromosome 18 open re...	131	4e-27
gi|20455845|gb|BC029958.1|	Homo sapiens chromosome 18 open re...	131	4e-27
gi|51093709|ref|NM 001003675.1|	Homo sapiens chromosome 18 op...	131	4e-27
gi|51093707|ref|NM 001003674.1|	Homo sapiens chromosome 18 op...	131	4e-27
gi|51093712|ref|NM 004338.2|	Homo sapiens chromosome 18 open ...	131	4e-27
gi|51093722|ref|NM 181483.2|	Homo sapiens chromosome 18 open ...	131	4e-27
gi|51093715|ref|NM 181482.2|	Homo sapiens chromosome 18 open ...	131	4e-27
gi|51093725|ref|NM 181481.2|	Homo sapiens chromosome 18 open ...	131	4e-27
gi|16549670|dbj|AK055028.1|	Homo sapiens cDNA FLJ30466 fis, c...	131	4e-27
gi|2271474|gb|AF009427.1|AF009427	Homo sapiens clone 22 mRNA,...	131	4e-27
gi|2271472|gb|AF009426.1|AF009426	Homo sapiens clone 22 mRNA,...	131	4e-27
gi|2271470|gb|AF009425.1|AF009425	Homo sapiens clone 22 mRNA,...	131	4e-27
gi|2271468|gb|AF009424.1|AF009424	Homo sapiens clone 22 mRNA,...	131	4e-27
gi|21728137|dbj|AP001010.4|	Homo sapiens genomic DNA, chromos...	131	4e-27
gi|68444170|ref|XM 694964.1|	PREDICTED: Danio rerio similar t...	123	1e-24
gi|68392627|ref|XM 686039.1|	PREDICTED: Danio rerio hypotheti...	123	1e-24
gi|28144669|emb|AL928820.8|	Zebrafish DNA sequence from clone...	123	1e-24
gi|44890591|gb|BC066971.1|	Homo sapiens chromosome 18 open re...	115	2e-22
gi|53133395|emb|AJ720368.1|	Gallus gallus mRNA for hypothetical	97.6	6e-17
gi|71896400|ref|NM 001031013.1|	Gallus gallus similar to Protein	97.6	6e-17
gi|32398638|emb|AL837520.26|	Mouse DNA sequence from clone RP...	85.7	2e-13
gi|49900684|gb|BC076211.1|	Danio rerio zgc:92731, mRNA (cDNA ...	71.9	3e-09
gi|50540225|ref|NM 001002580.1|	Danio rerio zgc:92731 (zgc:92731	71.9	3e-09
gi|12860744|dbj|AK020227.1|	Mus musculus 15 days embryo embry...	56.0	2e-04
gi|61696641|gb|AY803104.1|	Sus scrofa chromosome 17 clone pkmCon	48.1	0.047
gi|58382298|ref|XM 311847.2|	Anopheles gambiae str. PEST ENSA...	48.1	0.047
gi|57968359|ref|XM 563067.1|	Anopheles gambiae str. PEST ENSA...	48.1	0.047
gi|77020632|gb|AC155164.5|	Mus musculus BAC clone RP24-74L7 f...	42.1	2.9
gi|44844522|emb|BX088564.10|	Zebrafish DNA sequence from clon...	42.1	2.9
gi|25046376|gb|AC087063.20|	Mus musculus strain C57BL/6J clon...	42.1	2.9
gi|86279771|gb|CP000133.1|	Rhizobium etli CFN 42, complete genom	42.1	2.9
gi|15873053|emb|AJ328635.1|HSA328635	Homo sapiens genomic seq...	42.1	2.9
gi|3337310|gb|AC005284.1|AC005284	Homo sapiens chromosome 17,...	42.1	2.9

Alignments

Get selected sequences

Select all

Deselect all

> ☐ gi|40317614|ref|NM 020182.3| **UEG** Homo sapiens transmembrane, prostate androger transcript variant 1, mRNA
Length=4930

Score = 1322 bits (667), Expect = 0.0
Identities = 688/688 (100%), Gaps = 0/688 (0%)
Strand=Plus/Plus

Query 174 CACGTGCCTGCTGAGCCACTACAAGCTGTCTGCACGGTCCTTCATCAGCCGGCACAGCCA 233
Sbjct 567 626

Query 234 GGGGCGGAGGAGAGAAGATGCCCTGTCCTCAGAAGGATGCCTGTGGCCCTCGGAGAGCAC 293
Sbjct 627 686

Query 294 AGTGTCAAGCAACGGAATCCCAGAGCCGAGGTCTACGCCCCGCTCGGCCACCGACCG 353

Sbjct	687	.....	746
Query	354	CCTGGCCGTGCCGCCCTTCGCCCAGCGGGAGCGCTTCCACCGCTTCCAGCCCACCTATCC	413
Sbjct	747	.....	806
Query	414	GTACCTGCAGCACGAGATCGACCTGCCACCCACCATCTCGCTGTCAGACGGGGAGGAGCC	473
Sbjct	807	.....	866
Query	474	CCCACCCTACCAGGGCCCCCTGCACCCTCCAGCTTCGGGACCCCGAGCAGCAGCTGGAAC	533
Sbjct	867	.....	926
Query	534	GAACCGGGAGTCGGTGC GCGCACCCCCAAACAGAACCATCTTCGACAGTGACCTGATGGA	593
Sbjct	927	.....	986
Query	594	TAGTGCCAGGCTGGGCGGCCCTGnnnnnnnnAGCAGTAACTCGGGCATCAGCGCCACGTG	653
Sbjct	987	.....	1046
Query	654	CTACGGCAGCGGCGGGCGCATGGAGGGGCGCGCCCGCCACCTACAGCGAGGTCATCGGCCA	713
Sbjct	1047	.....	1106
Query	714	CTACCCGGGGTCCTCCTTCCAGCACCAGCAGAGCAGTGGGCGCCCTCCTTGCTGGAGGG	773
Sbjct	1107	.....	1166
Query	774	GACCCGGCTCCACCACACACATCGCGCCCTAGAGAGCGCAGCCATCTGGAGCAAAGA	833
Sbjct	1167	.....	1226
Query	834	GAAGGATAAACAGAAAGGACACCCTCTC	861
Sbjct	1227	.....	1254

Score = 188 bits (95), Expect = 2e-44
 Identities = 95/95 (100%), Gaps = 0/95 (0%)
 Strand=Plus/Plus

Query	47	GGCAGCCCCAATGTCTCCTGCACGTGCAACTGCAAACGCTCTTTGTTCCAGAGCATGGAGA	106
Sbjct	440	.....	499
Query	107	TCACGGAGCTGGAGTTTGTTTCAGATCATCATCATC	141
Sbjct	500	.....	534

Score = 56.0 bits (28), Expect = 2e-04
 Identities = 28/28 (100%), Gaps = 0/28 (0%)
 Strand=Plus/Plus

Query	1	ATGCACCGCTTGATGGGGGTCAACAGCA	28
Sbjct	394	.....	421

> [gi|40317615|ref|NM_199169.1|](#) **UIG** Homo sapiens transmembrane, prostate androgen : transcript variant 2, mRNA
 Length=4538

Score = 1322 bits (667), Expect = 0.0
 Identities = 688/688 (100%), Gaps = 0/688 (0%)
 Strand=Plus/Plus

Query	174	CACGTGCCTGCTGAGCCACTACAAGCTGTCTGCACGGTCCTTCATCAGCCGGCACAGCCA	233
Sbjct	175	.....	234
Query	234	GGGGCGGAGGAGAGAAGATGCCCTGTCTCAGAAAGGATGCCTGTGGCCCTCGGAGAGCAC	293
Sbjct	235	.....	294
Query	294	AGTGTCAAGCAACGGAATCCCAGAGCCGCAGGTCTACGCCCCGCTCGGCCCCACCGACCG	353

Sbjct	295	.....	354
Query	354	CCTGGCCGTGCCGCCCTTCGCCCAGCGGGAGCGCTTCCACCGCTTCCAGCCCACCTATCC	413
Sbjct	355	.....	414
Query	414	GTACCTGCAGCACGAGATCGACCTGCCACCCACCATCTCGCTGTCAGACGGGGAGGAGCC	473
Sbjct	415	.....	474
Query	474	CCCACCCTACCAGGGCCCCCTGCACCCTCCAGCTTCGGGACCCCGAGCAGCAGCTGGAACT	533
Sbjct	475	.....	534
Query	534	GAACCGGGAGTCGGTGCGCGCACCCCCAAACAGAACCATCTTCGACAGTGACCTGATGGA	593
Sbjct	535	.....	594
Query	594	TAGTGCCAGGCTGGGCGGCCCTGnnnnnnnnAGCAGTAACTCGGGCATCAGCGCCACGTG	653
Sbjct	595	.....	654
Query	654	CTACGGCAGCGGCGGGCGCATGGAGGGGCGCCGCCACCTACAGCGAGGTCATCGGCCA	713
Sbjct	655	.....	714
Query	714	CTACCCGGGGTCCTCCTTCCAGCACCAGCAGAGCAGTGGGCCGCCCTCCTTGCTGGAGGG	773
Sbjct	715	.....	774
Query	774	GACCCGGCTCCACCACACACATCGCGCCCCTAGAGAGCGCAGCCATCTGGAGCAAAGA	833
Sbjct	775	.....	834
Query	834	GAAGGATAAACAGAAAGGACACCCTCTC	861
Sbjct	835	.....	862

Score = 63.9 bits (32), Expect = 8e-07
 Identities = 32/32 (100%), Gaps = 0/32 (0%)
 Strand=Plus/Plus

Query	110	CGGAGCTGGAGTTTGTTCAGATCATCATCATC	141
Sbjct	111	.....	142

> [gi|40317619|ref|NM_199171.1|](#) **U1E G** Homo sapiens transmembrane, prostate androger transcript variant 4, mRNA
 Length=4590

Score = 1322 bits (667), Expect = 0.0
 Identities = 688/688 (100%), Gaps = 0/688 (0%)
 Strand=Plus/Plus

Query	174	CACGTGCCTGCTGAGCCACTACAAGCTGTCTGCACGGTCCTTCATCAGCCGGCACAGCCA	233
Sbjct	227	.....	286
Query	234	GGGGCGGAGGAGAGAAGATGCCCTGTCTCAGAAGGATGCCTGTGGCCCTCGGAGAGCAC	293
Sbjct	287	.....	346
Query	294	AGTGTCAGGCAACGGAATCCCAGAGCCGCAGGTCTACGCCCCGCCTCGGCCCCACCGACCG	353
Sbjct	347	.....	406
Query	354	CCTGGCCGTGCCGCCCTTCGCCCAGCGGGAGCGCTTCCACCGCTTCCAGCCCACCTATCC	413
Sbjct	407	.....	466
Query	414	GTACCTGCAGCACGAGATCGACCTGCCACCCACCATCTCGCTGTCAGACGGGGAGGAGCC	473
Sbjct	467	.....	526
Query	474	CCCACCCTACCAGGGCCCCCTGCACCCTCCAGCTTCGGGACCCCGAGCAGCAGCTGGAACT	533
Sbjct	527	.....	586

Query	534	GAACCGGGAGTCGGTGC	CGCGCACCCCCAAACAGAACCATCTTCGACAGTGACCTGATGGA	593
Sbjct	587	.....	.....	646
Query	594	TAGTGCCAGGCTGGGCGG	CCCCCTGnnnnnnnnAGCAGTAACTCGGGCATCAGCGCCACGTG	653
Sbjct	647	.....	.....	706
Query	654	CTACGGCAGCGGCGGGCG	CATGGAGGGGCGCGCCACCTACAGCGAGGTCATCGGCCA	713
Sbjct	707	.....	.....	766
Query	714	CTACCGGGGTCCTCCTT	CCAGCACCAGCAGAGCAGTGGGCGCCCTCCTTGCTGGAGGG	773
Sbjct	767	.....	.....	826
Query	774	GACCGGCTCCACCACAC	ACACATCGCGCCCTAGAGAGCGCAGCCATCTGGAGCAAAGA	833
Sbjct	827	.....	.....	886
Query	834	GAAGGATAAACAGAAAG	GACACCCTCTC	861
Sbjct	887	.....	.....	914

Score = 63.9 bits (32), Expect = 8e-07
Identities = 32/32 (100%), Gaps = 0/32 (0%)
Strand=Plus/Plus

Query	110	CGGAGCTGGAGTTTGTTC	CAGATCATCATCATC	141
Sbjct	163	.....	.....	194

> [gi|40317617|ref|NM_199170.1|](#) **U|G** Homo sapiens transmembrane, prostate androgen :
transcript variant 3, mRNA
Length=4531

Score = 1322 bits (667), Expect = 0.0
Identities = 688/688 (100%), Gaps = 0/688 (0%)
Strand=Plus/Plus

Query	174	CACGTGCCTGCTGAGCCACT	TACAAGCTGTCTGCACGGTCCTTCATCAGCCGGCACAGCCA	233
Sbjct	168	.....	.....	227
Query	234	GGGGCGGAGGAGAGAAGAT	GCCCTGTCTCAGAAGGATGCCTGTGGCCCTCGGAGAGCAC	293
Sbjct	228	.....	.....	287
Query	294	AGTGTCAAGCAACGGAAT	CCCAGAGCCGCAGGTCTACGCCCCGCTCGGCCACCGACCG	353
Sbjct	288	.....	.....	347
Query	354	CCTGGCCGTGCCGCCCTTC	GCCCAGCGGGAGCGCTTCCACCGCTTCCAGCCCACCTATCC	413
Sbjct	348	.....	.....	407
Query	414	GTACCTGCAGCACGAGAT	CGACCTGCCACCCACCATCTCGCTGTCAGACGGGGAGGAGCC	473
Sbjct	408	.....	.....	467
Query	474	CCCACCCTACCAGGGCCCC	TGCACCCCTCCAGCTTCGGGACCCCGAGCAGCAGCTGGA	533
Sbjct	468	.....	.....	527
Query	534	GAACCGGGAGTCGGTGC	CGCGCACCCCCAAACAGAACCATCTTCGACAGTGACCTGATGGA	593
Sbjct	528	.....	.....	587
Query	594	TAGTGCCAGGCTGGGCGG	CCCCCTGnnnnnnnnAGCAGTAACTCGGGCATCAGCGCCACGTG	653
Sbjct	588	.....	.....	647
Query	654	CTACGGCAGCGGCGGGCG	CATGGAGGGGCGCGCCACCTACAGCGAGGTCATCGGCCA	713
Sbjct	648	.....	.....	707
Query	714	CTACCGGGGTCCTCCTT	CCAGCACCAGCAGAGCAGTGGGCGCCCTCCTTGCTGGAGGG	773
Sbjct	708	.....	.....	767

Query 774 GACCCGGCTCCACCACACACATCGCGCCCCTAGAGAGCGCAGCCATCTGGAGCAAAGA 833
Sbjct 768 827

Query 834 GAAGGATAAACAGAAAGGACACCCCTCTC 861
Sbjct 828 855

Score = 63.9 bits (32), Expect = 8e-07
Identities = 32/32 (100%), Gaps = 0/32 (0%)
Strand=Plus/Plus

Query 110 CGGAGCTGGAGTTTGTTCAGATCATCATCATC 141
Sbjct 104 135

> [gi|50492890|emb|CR612083.1|](#) **U** full-length cDNA clone CS0DJ015YF12 of T cells (Ji
Cot 10-normalized of Homo sapiens (human)
Length=901

Score = 1322 bits (667), Expect = 0.0
Identities = 688/688 (100%), Gaps = 0/688 (0%)
Strand=Plus/Plus

Query 174 CACGTGCCTGCTGAGCCACTACAAGCTGTCTGCACGGTCCTTCATCAGCCGGCACAGCCA 233
Sbjct 6 65

Query 234 GGGGCGGAGGAGAGAAGATGCCCTGTCCTCAGAAGGATGCCTGTGGCCCTCGGAGAGCAC 293
Sbjct 66 125

Query 294 AGTGTCAGGCAACGGAATCCCAGAGCCGAGGTCTACGCCCCGCCCTCGGCCACCGACCG 353
Sbjct 126 185

Query 354 CCTGGCCGTGCCGCCCTTCGCCCAGCGGGAGCGCTTCCACCGCTTCCAGCCCACCTATCC 413
Sbjct 186 245

Query 414 GTACCTGCAGCACGAGATCGACCTGCCACCCACCATCTCGCTGTCAGACGGGGAGGAGCC 473
Sbjct 246 305

Query 474 CCCACCCTACCAGGGCCCCCTGCACCCTCCAGCTTCGGGACCCCGAGCAGCAGCTGGAAC 533
Sbjct 306 365

Query 534 GAACCGGGAGTCGGTGCGCGCACCCCCAAACAGAACCATCTTCGACAGTGACCTGATGGA 593
Sbjct 366 425

Query 594 TAGTGCCAGGCTGGGCGGCCCTGnnnnnnnnAGCAGTAACTCGGGCATCAGCGCCACGTG 653
Sbjct 426 485

Query 654 CTACGGCAGCGGCGGGCGCATGGAGGGGCCGCCGCCACCTACAGCGAGGTCATCGGCCA 713
Sbjct 486 545

Query 714 CTACCCGGGGTCCTCCTTCCAGCACCAGCAGAGCAGTGGGCGGCCCTCCTTGCTGGAGGG 773
Sbjct 546 605

Query 774 GACCCGGCTCCACCACACACATCGCGCCCCTAGAGAGCGCAGCCATCTGGAGCAAAGA 833
Sbjct 606 665

Query 834 GAAGGATAAACAGAAAGGACACCCCTCTC 861
Sbjct 666 693

> [gi|16303741|gb|AF305616.1|AF305616](#) **UEG** Homo sapiens STAG1/PMEPA1 mRNA, complet
Length=4839

Score = 1322 bits (667), Expect = 0.0
 Identities = 688/688 (100%), Gaps = 0/688 (0%)
 Strand=Plus/Plus

Query	174	CACGTGCGCTGCTGAGCCACTACAAGCTGTCTGCACGGTCCTTCATCAGCCGGCACAGCCA	233
Sbjct	494	.....	553
Query	234	GGGGCGGAGGAGAGAAGATGCCCTGTCTCAGAAGGATGCCGTGTGGCCCTCGGAGAGCAC	293
Sbjct	554	.....	613
Query	294	AGTGTCAAGCAACGGAATCCCAGAGCCGAGGTCTACGCCCCGCCCTCGGCCACCGACCG	353
Sbjct	614	.....	673
Query	354	CCTGGCCGTGCCGCCCTTCGCCCAGCGGGAGCGCTTCCACCGCTTCCAGCCCACCTATCC	413
Sbjct	674	.....	733
Query	414	GTACCTGCAGCACGAGATCGACCTGCCACCCACCATCTCGCTGTCAGACGGGGAGGAGCC	473
Sbjct	734	.....	793
Query	474	CCCACCCTACCAGGGCCCCTGCACCCTCCAGCTTCGGGACCCCGAGCAGCAGCTGGAAC	533
Sbjct	794	.....	853
Query	534	GAACCGGGAGTCGGTGCGCGACCCCCAAACAGAACCATCTTCGACAGTGACCTGATGGA	593
Sbjct	854	.....	913
Query	594	TAGTGCCAGGCTGGGCGGCCCTGnnnnnnnnAGCAGTAACTCGGGCATCAGCGCCACGTG	653
Sbjct	914	.....	973
Query	654	CTACGGCAGCGGCGGGCGCATGGAGGGGCCGCCCCACCTACAGCGAGGTCATCGGCCA	713
Sbjct	974	.....	1033
Query	714	CTACCCGGGGTCCTCCTTCCAGCACCAGCAGAGCAGTGGGCCGCCCTCCTTGCTGGAGGG	773
Sbjct	1034	.....	1093
Query	774	GACCCGGCTCCACCACACACACATCGCGCCCCTAGAGAGCGCAGCCATCTGGAGCAAAGA	833
Sbjct	1094	.....	1153
Query	834	GAAGGATAAACAGAAAGGACACCCTCTC	861
Sbjct	1154	.....	1181

Score = 188 bits (95), Expect = 2e-44
 Identities = 95/95 (100%), Gaps = 0/95 (0%)
 Strand=Plus/Plus

Query	47	GGCAGCCCCAATGTCTCCTGCACGTGCAACTGCAAACGCTCTTTGTTCCAGAGCATGGAGA	106
Sbjct	367	.....	426
Query	107	TCACGGAGCTGGAGTTTGTTCAGATCATCATCATC	141
Sbjct	427	.....	461

Score = 56.0 bits (28), Expect = 2e-04
 Identities = 28/28 (100%), Gaps = 0/28 (0%)
 Strand=Plus/Plus

Query	1	ATGCACCGCTTGATGGGGGTCAACAGCA	28
Sbjct	321	.....	348

>gi|22121998|gb|AY128643.1| **UEG** Homo sapiens PMEPA1 variant A protein mRNA, cor
 Length=1818

Score = 1322 bits (667), Expect = 0.0
 Identities = 688/688 (100%), Gaps = 0/688 (0%)
 Strand=Plus/Plus

Query	174	CACGTGCCTGCTGAGCCACTACAAGCTGTCTGCACGGTCCTTCATCAGCCGGCACAGCCA	233
Sbjct	168	.....	227
Query	234	GGGGCGGAGGAGAGAAGATGCCCTGTCTCAGAAGGATGCCTGTGGCCCTCGGAGAGCAC	293
Sbjct	228	.....	287
Query	294	AGTGTCAGGCAACGGAATCCCAGAGCCGCAGGTCTACGCCCCGCTCGGCCCCACCGACCG	353
Sbjct	288	.....	347
Query	354	CCTGGCCGTGCCGCCCTTCGCCCAGCGGGAGCGCTTCCACCGCTTCCAGCCCACCTATCC	413
Sbjct	348	.....	407
Query	414	GTACCTGCAGCACGAGATCGACCTGCCACCCACCATCTCGCTGTCAGACGGGGAGGAGCC	473
Sbjct	408	.....	467
Query	474	CCCACCCTACCAGGGCCCCCTGCACCCTCCAGCTTCGGGACCCCGAGCAGCAGCTGGAAC	533
Sbjct	468	.....	527
Query	534	GAACCGGGAGTCGGTGCGCGACCCCCAAACAGAACCATCTTCGACAGTGACCTGATGGA	593
Sbjct	528	.....	587
Query	594	TAGTGCCAGGCTGGGCGGCCCTGnnnnnnnnAGCAGTAACTCGGGCATCAGCGCCACGTG	653
Sbjct	588	.....	647
Query	654	CTACGGCAGCGGCGGGCGCATGGAGGGGCGCGCCGCCACCTACAGCGAGGTCATCGGCCA	713
Sbjct	648	.....	707
Query	714	CTACCCGGGGTCCTCCTTCCAGCACCAGCAGAGCAGTGGGCGCCCTCCTTGCTGGAGGG	773
Sbjct	708	.....	767
Query	774	GACCCGGCTCCACCACACACACATCGCGCCCCTAGAGAGCGCAGCCATCTGGAGCAAAGA	833
Sbjct	768	.....	827
Query	834	GAAGGATAAAACAGAAAGGACACCCTCTC	861
Sbjct	828	.....	855

Score = 63.9 bits (32), Expect = 8e-07
 Identities = 32/32 (100%), Gaps = 0/32 (0%)
 Strand=Plus/Plus

Query	110	CGGAGCTGGAGTTTGTTCAGATCATCATCATC	141
Sbjct	104	.....	135

> [gi|9255808|gb|AF224278.1|AF224278](#) **U E G** Homo sapiens PMEPA1 protein (PMEPA1) mRNA
 Length=1141

Score = 1322 bits (667), Expect = 0.0
 Identities = 688/688 (100%), Gaps = 0/688 (0%)
 Strand=Plus/Plus

Query	174	CACGTGCCTGCTGAGCCACTACAAGCTGTCTGCACGGTCCTTCATCAGCCGGCACAGCCA	233
Sbjct	164	.....	223
Query	234	GGGGCGGAGGAGAGAAGATGCCCTGTCTCAGAAGGATGCCTGTGGCCCTCGGAGAGCAC	293
Sbjct	224	.....	283
Query	294	AGTGTCAGGCAACGGAATCCCAGAGCCGCAGGTCTACGCCCCGCTCGGCCCCACCGACCG	353
Sbjct	284	.....	343

Query	354	CCTGGCCGTGCCGCCCTTCGCCCAGCGGGAGCGCTTCCACCGCTTCCAGCCCACCTATCC	413
Sbjct	344	.....	403
Query	414	GTACCTGCAGCACGAGATCGACCTGCCACCCACCATCTCGCTGTCAGACGGGGAGGAGCC	473
Sbjct	404	.....	463
Query	474	CCCACCCTACCAGGGCCCCCTGCACCCTCCAGCTTCGGGACCCCGAGCAGCAGCTGGAAC	533
Sbjct	464	.....	523
Query	534	GAACCGGGAGTCGGTGCGCGCACCCCCAAACAGAACCATCTTCGACAGTGACCTGATGGA	593
Sbjct	524	.....	583
Query	594	TAGTGCCAGGCTGGGCGGCCCTGnnnnnnnnAGCAGTAACTCGGGCATCAGCGCCACGTG	653
Sbjct	584	.....	643
Query	654	CTACGGCAGCGGCGGGCGCATGGAGGGGCGCCGCCACCTACAGCGAGGTCATCGGCCA	713
Sbjct	644	.....	703
Query	714	CTACCCGGGGTCCTCCTTCCAGCACCAGCAGAGCAGTGGGCGCCCTCCTTGCTGGAGGG	773
Sbjct	704	.....	763
Query	774	GACCCGGCTCCACCACACACACATCGCGCCCTAGAGAGCGCAGCCATCTGGAGCAAAGA	833
Sbjct	764	.....	823
Query	834	GAAGGATAAACAGAAAGGACACCCTCTC	861
Sbjct	824	.....	851

Score = 63.9 bits (32), Expect = 8e-07
 Identities = 32/32 (100%), Gaps = 0/32 (0%)
 Strand=Plus/Plus

Query	110	CGGAGCTGGAGTTTGTTCAGATCATCATCATC	141
Sbjct	100	.....	131

> [gi|16198474|gb|BC015918.1|](#) **U1E G** Homo sapiens transmembrane, prostate androgen :
 (cDNA clone IMAGE:4559576), partial cds
 Length=1061

Score = 1314 bits (663), Expect = 0.0
 Identities = 687/688 (99%), Gaps = 0/688 (0%)
 Strand=Plus/Plus

Query	174	CACGTGCCTGCTGAGCCACTACAAGCTGTCTGCACGGTCCTTCATCAGCCGGCACAGCCA	233
Sbjct	154	.....	213
Query	234	GGGGCGGAGGAGAGAAGATGCCCTGTCTCAGAAGGATGCCTGTGGCCCTCGGAGAGCAC	293
Sbjct	214	.....	273
Query	294	AGTGTCAAGCAACGGAATCCCAGAGCCGCAGGTCTACGCCCCGCTCGGCCCACCGACCG	353
Sbjct	274	.....	333
Query	354	CCTGGCCGTGCCGCCCTTCGCCCAGCGGGAGCGCTTCCACCGCTTCCAGCCCACCTATCC	413
Sbjct	334	.....	393
Query	414	GTACCTGCAGCACGAGATCGACCTGCCACCCACCATCTCGCTGTCAGACGGGGAGGAGCC	473
Sbjct	394	.....G.....	453
Query	474	CCCACCCTACCAGGGCCCCCTGCACCCTCCAGCTTCGGGACCCCGAGCAGCAGCTGGAAC	533
Sbjct	454	.....	513
Query	534	GAACCGGGAGTCGGTGCGCGCACCCCCAAACAGAACCATCTTCGACAGTGACCTGATGGA	593

Sbjct	514	.....	573
Query	594	TAGTGCCAGGCTGGGCGGCCCTGnnnnnnnnAGCAGTAACTCGGGCATCAGCGCCACGTG	653
Sbjct	574	.....	633
Query	654	CTACGGCAGCGGCGGGCGCATGGAGGGGCCGCCGCCACCTACAGCGAGGTCATCGGCCA	713
Sbjct	634	.....	693
Query	714	CTACCCGGGGTCCTCCTTCCAGCACCAGCAGAGCAGTGGGCGCCCTCCTTGCTGGAGGG	773
Sbjct	694	.....	753
Query	774	GACCCGGCTCCACCACACACACATCGCGCCCTAGAGAGCGCAGCCATCTGGAGCAAAGA	833
Sbjct	754	.....	813
Query	834	GAAGGATAAACAGAAAGGACACCCTCTC	861
Sbjct	814	.....	841

Score = 188 bits (95), Expect = 2e-44
Identities = 95/95 (100%), Gaps = 0/95 (0%)
Strand=Plus/Plus

Query	47	GGCAGCCCAATGTCTCCTGCACGTGCAACTGCAAACGCTCTTTGTTCCAGAGCATGGAGA	106
Sbjct	27	.....	86
Query	107	TCACGGAGCTGGAGTTTGTTCAGATCATCATCATC	141
Sbjct	87	.....	121

> [gi|51593770|gb|BC080635.1|](#) **UIG** Homo sapiens transmembrane, prostate androgen inc
variant 2, mRNA (cDNA clone MGC:99523 IMAGE:6569922),
complete cds
Length=1060

Score = 1298 bits (655), Expect = 0.0
Identities = 685/688 (99%), Gaps = 0/688 (0%)
Strand=Plus/Plus

Query	174	CACGTGCCTGCTGAGCCACTACAAGCTGTCTGCACGGTCCTTCATCAGCCGGCACAGCCA	233
Sbjct	153	.....T.....	212
Query	234	GGGGCGGAGGAGAGAAGATGCCCTGTCCCTCAGAAGGATGCCTGTGGCCCTCGGAGAGCAC	293
Sbjct	213	.....	272
Query	294	AGTGTCAGGCAACGGAATCCCAGAGCCGCAGGTCTACGCCCCGCTCGGCCCACCGACCG	353
Sbjct	273	.....	332
Query	354	CCTGGCCGTGCCGCCCTTCGCCCAGCGGGAGCGCTTCCACCGCTTCCAGCCCACCTATCC	413
Sbjct	333	.....	392
Query	414	GTACCTGCAGCACGAGATCGACCTGCCACCCACCATCTCGCTGTCAGACGGGGAGGAGCC	473
Sbjct	393	.....G.....G.....	452
Query	474	CCCACCCTACCAGGGCCCCCTGCACCCTCCAGCTTCGGGACCCCCGAGCAGCAGCTGGAACT	533
Sbjct	453	.....	512
Query	534	GAACCGGGAGTCGGTGCGCGCACCCCCAAACAGAACCATCTTCGACAGTGACCTGATGGA	593
Sbjct	513	.....	572
Query	594	TAGTGCCAGGCTGGGCGGCCCTGnnnnnnnnAGCAGTAACTCGGGCATCAGCGCCACGTG	653
Sbjct	573	.....	632
Query	654	CTACGGCAGCGGCGGGCGCATGGAGGGGCCGCCGCCACCTACAGCGAGGTCATCGGCCA	713
Sbjct	633	.....	692

```

Query 714 CTACCCGGGGTCCTCCTTCCAGCACCAGCAGAGCAGTGGGCCGCCCTCCTTGCTGGAGGG 773
Sbjct 693 ..... 752

Query 774 GACCCGGCTCCACCACACACATCGCGCCCCTAGAGAGCGCAGCCATCTGGAGCAAAGA 833
Sbjct 753 ..... 812

Query 834 GAAGGATAAACAGAAAGGACACCCTCTC 861
Sbjct 813 ..... 840

```

Score = 63.9 bits (32), Expect = 8e-07
 Identities = 32/32 (100%), Gaps = 0/32 (0%)
 Strand=Plus/Plus

```

Query 110 CGGAGCTGGAGTTTGTTCAGATCATCATCATC 141
Sbjct 89 ..... 120

```

> [gi|11546043|emb|AL035541.15|HS718J7](#) **EID** Human DNA sequence from clone RP4-718J7
 Contains the PCK1 gene for soluble phosphoenolpyruvate
 carboxykinase 1, the ZBP1 gene for Z-DNA binding protein
 1, the 3' end of the TMEPAI gene for transmembrane prostate
 androgen induced mRNA, two putative novel genes, the 5' end
 of the CTCFL gene for CCCTC-binding factor (zinc finger)-like
 and a CpG island, complete sequence
 Length=130435

Score = 1039 bits (524), Expect = 0.0
 Identities = 545/545 (100%), Gaps = 0/545 (0%)
 Strand=Plus/Minus

```

Query 317 AGCCGCAGGTCTACGCCCCGCTCGGCCACCGACCGCCTGGCCGTGCCGCCCTTCGCCC 376
Sbjct 128443 ..... 128384

Query 377 AGCGGGAGCGCTTCCACCGCTTCCAGCCCACCTATCCGTACCTGCAGCACGAGATCGACC 436
Sbjct 128383 ..... 128324

Query 437 TGCCACCCACCATCTCGCTGTCAGACGGGGAGGAGCCCCACCCCTACCAGGGCCCCCTGCA 496
Sbjct 128323 ..... 128264

Query 497 CCCTCCAGCTTCGGGACCCCGAGCAGCAGCTGGAAGTGAACCGGGAGTCGGTGCGCGCAC 556
Sbjct 128263 ..... 128204

Query 557 CCCCAAACAGAAACCATCTTCGACAGTGACCTGATGGATAGTGCCAGGCTGGGCGGCCCT 616
Sbjct 128203 ..... 128144

Query 617 GnnnnnnnnAGCAGTAACTCGGGCATCAGCGCCACGTGCTACGGCAGCGGCGGGCGCATGG 676
Sbjct 128143 ..... 128084

Query 677 AGGGGCCGCCGCCACCTACAGCGAGGTCATCGGCCACTACCCGGGGTCTCCTTCCAGC 736
Sbjct 128083 ..... 128024

Query 737 ACCAGCAGAGCAGTGGGGCCGCCCTCCTTGCTGGAGGGGACCCGGCTCCACCACACACACA 796
Sbjct 128023 ..... 127964

Query 797 TCGCGCCCCTAGAGAGCGCAGCCATCTGGAGCAAAGAGAAGGATAAACAGAAAGGACACC 856
Sbjct 127963 ..... 127904

Query 857 CTCTC 861
Sbjct 127903 ..... 127899

```

Score = 107 bits (54), Expect = 6e-20

Identities = 54/54 (100%), Gaps = 0/54 (0%)
Strand=Plus/Minus

Query 265 GAAGGATGCCTGTGGCCCTCGGAGAGCACAGTGTTCAGGCAACGGAATCCCAGAG 318
Sbjct 128929 128876

> [gi|15824468|gb|AF305426.1|AF305426](#) **D** Homo sapiens solid tumor-associated 1 prote
gene, complete cds
Length=61505

Score = 1039 bits (524), Expect = 0.0
Identities = 545/545 (100%), Gaps = 0/545 (0%)
Strand=Plus/Plus

Query 317 AGCCGCAGGTCTACGCCCCGCCTCGGCCACCGACCGCTGGCCGTGCCGCCCTTCGCCC 376
Sbjct 57303 57362

Query 377 AGCGGGAGCGCTTCCACCGCTTCCAGCCCACCTATCCGTACCTGCAGCACGAGATCGACC 436
Sbjct 57363 57422

Query 437 TGCCACCCACCATCTCGCTGTTCAGACGGGGAGGAGCCCCACCCCTACCAGGGCCCCCTGCA 496
Sbjct 57423 57482

Query 497 CCCTCCAGCTTCGGGACCCGAGCAGCAGCTGGAACGAACCGGGAGTCGGTGCGCGCAC 556
Sbjct 57483 57542

Query 557 CCCCAAACAGAACCATCTTCGACAGTGACCTGATGGATAGTGCCAGGCTGGGCGGCCCT 616
Sbjct 57543 57602

Query 617 GnnnnnnnnAGCAGTAACTCGGGCATCAGCGCCACGTGCTACGGCAGCGGCGGGCGCATGG 676
Sbjct 57603 57662

Query 677 AGGGGCCGCGCCACCTACAGCGAGGTCATCGGCCACTACCGGGGTCTCTCTTCCAGC 736
Sbjct 57663 57722

Query 737 ACCAGCAGAGCAGTGGGCCGCCCTCCTTGCTGGAGGGGACCCGGCTCCACCACACACACA 796
Sbjct 57723 57782

Query 797 TCGCGCCCCTAGAGAGCGCAGCCATCTGGAGCAAAGAGAAGGATAAACAGAAAGGACACC 856
Sbjct 57783 57842

Query 857 CTCTC 861
Sbjct 57843 57847

Score = 182 bits (92), Expect = 1e-42
Identities = 92/92 (100%), Gaps = 0/92 (0%)
Strand=Plus/Plus

Query 174 CACGTGCCTGCTGAGCCACTACAAGCTGTCTGCACGGTCCTTCATCAGCCGGCACAGCCA 233
Sbjct 50270 50329

Query 234 GGGGCGGAGGAGAGAAGATGCCCTGTCCTCAG 265
Sbjct 50330 50361

Score = 125 bits (63), Expect = 3e-25
Identities = 63/63 (100%), Gaps = 0/63 (0%)
Strand=Plus/Plus

Query 47 GGCAGCCCAATGTCTCCTGCACGTGCAACTGCAAACGCTCTTTGTTCCAGAGCATGGAGA 106
Sbjct 367 426

Query 107 TCA 109
Sbjct 427 ... 429

Score = 107 bits (54), Expect = 6e-20
Identities = 54/54 (100%), Gaps = 0/54 (0%)
Strand=Plus/Plus

Query 265 GAAGGATGCCTGTGGCCCTCGGAGAGCACAGTGTTCAGGCAACGGAATCCCAGAG 318
Sbjct 56817 56870

Score = 63.9 bits (32), Expect = 8e-07
Identities = 32/32 (100%), Gaps = 0/32 (0%)
Strand=Plus/Plus

Query 110 CGGAGCTGGAGTTTGTTCAGATCATCATCATC 141
Sbjct 50206 50237

Score = 56.0 bits (28), Expect = 2e-04
Identities = 28/28 (100%), Gaps = 0/28 (0%)
Strand=Plus/Plus

Query 1 ATGCACCGCTTGATGGGGGTCAACAGCA 28
Sbjct 321 348

> [gi|55652999|ref|XM_514746.1|](#) **G** PREDICTED: Pan troglodytes LOC458363 (LOC458363),
Length=1059

Score = 995 bits (502), Expect = 0.0
Identities = 538/543 (99%), Gaps = 0/543 (0%)
Strand=Plus/Plus

Query 319 CCGCAGGTCTACGCCCCGCTCGGCCACCGACCGCTGGCCGTGCCGCCCTTCGCCCAG 378
Sbjct 454 513

Query 379 CGGGAGCGCTTCCACCGCTTCCAGCCCACCTATCCGTACCTGCAGCACGAGATCGACCTG 438
Sbjct 514C..... 573

Query 439 CCACCCACCATCTCGCTGTCAGACGGGGAGGAGCCCCACCCCTACCAGGGCCCCCTGCACC 498
Sbjct 574 ..G.....G..... 633

Query 499 CTCCAGCTTCGGGACCCCCGAGCAGCAGCTGGAAGTGAACCGGGAGTCGGTGCAGCGCACCC 558
Sbjct 634 693

Query 559 CCAAACAGAACCATCTTCGACAGTGACCTGATGGATAGTGCCAGGCTGGGCGGCCCTGn 618
Sbjct 694 753

Query 619 nnnnnnAGCAGTAACTCGGGCATCAGCGCCACGTGCTACGGCAGCGGCGGGCGCATGGAG 678
Sbjct 754 813

Query 679 GGGCCGCCGCCACCTACAGCGAGGTCATCGGCCACTACCCGGGGTCCTCCTTCCAGCAC 738
Sbjct 814A..... 873

Query 739 CAGCAGAGCAGTGGGCCGCCCTCCTTGCTGGAGGGGACCCGGCTCCACCACACACATC 798
Sbjct 874 933

Query 799 GCGCCCCTAGAGAGCGCAGCCATCTGGAGCAAAGAGAAGGATAAACAGAAAGGACACCCT 858
Sbjct 934C..... 993

Query 859 CTC 861
Sbjct 994 ... 996

Score = 107 bits (54), Expect = 6e-20
Identities = 54/54 (100%), Gaps = 0/54 (0%)
Strand=Plus/Plus

Query 265 GAAGGATGCCTGTGGCCCTCGGAGAGCACAGTGTTCAGGCAACGGAATCCCAGAG 318
Sbjct 294 347

> [gi|73992626|ref|XM_543070.2|](#) **G** PREDICTED: Canis familiaris similar to Transmembrane
androgen-induced protein (Solid tumor-associated 1 protein)
(LOC485945), mRNA
Length=2142

Score = 872 bits (440), Expect = 0.0
Identities = 634/691 (91%), Gaps = 3/691 (0%)
Strand=Plus/Plus

Query 174 CACGTGCCTGCTGAGCCACTACAAGCTGTCTGCACGGTCTTCATCAGCCGGCACAGCCA 233
Sbjct 471G..C.....G..... 530

Query 234 GGGGCGGAGGAGAGAAGATGCCCTGTCTCAGAAGGATGCCTGTGGCCCTCGGAGAGCAC 293
Sbjct 531 ...CA.....G.....C.....G.....C.....G..C..... 590

Query 294 AGTGTTCAGGCAACGGAATCCCAGAGCCGAGGTCTACGCCCCGCCTCGGCCACCGACCG 353
Sbjct 591 G.....G....G.....T.....T..GA..... 650

Query 354 CCTGGCCGTGCCGCCCTTCGCCCAGCGGGAGCGCTTCCACCGCTTCCAGCCCACCTATCC 413
Sbjct 651C.....A.....C.....C.. 710

Query 414 GTACCTGCAGCACGAGATCGACCTGCCACCCACCATCTCGCTGTCAGACGGGGAGGAGCC 473
Sbjct 711C.....G.....G..... 770

Query 474 CCCACCCTACCAGGGCCCTGCACCCTCCAGCTTCGGGACCCCGAGCAGCAGCTGGAACCT 533
Sbjct 771 ...G.....G.....G.....G.. 830

Query 534 GAACCGGGAGTCGGTGCAGCGACCCCCAAACAGAACCATCTTCGACAGTGACCTGATGGA 593
Sbjct 831C.....G.....G.....C..... 890

Query 594 TAGTGCCAGGCTGGGCGGCCCCCTGnnnnnnnnAGCAGTAACTCGGGCATCAGCGCCACGTG 653
Sbjct 891 C.....T..T..... 950

Query 654 CTACGGCAGCGGCGGGCGCATGGAGGGGCCGCCGCCACCTACAGCGAGGTCATCGGCCA 713
Sbjct 951GG....T.....C..... 1010



Query 714 CTACCCGGGGTCC---TCCTTCCAGCACCAGCAGAGCAGTGGGCCGCCCTCCTTGCTGGA 770
Sbjct 1011CCGG.....C..... 1070

Query 771 GGGGACCCGGCTCCACCACACACATCGCGCCCCTAGAGAGCGCAGCCATCTGGAGCAA 830
Sbjct 1071C.....G.....C.....G.....A....TGC..... 1130

Query 831 AGAGAAGGATAAAACAGAAAGGACACCCCTCTC 861
Sbjct 1131 ...A.....C.....G..... 1161

Score = 44.1 bits (22), Expect = 0.73
Identities = 28/30 (93%), Gaps = 0/30 (0%)
Strand=Plus/Plus

Query 112 GAGCTGGAGTTTGTTCAGATCATCATCATC 141
Sbjct 409G.....C..... 438

>  gi|82524234|emb|CR956367.12|  Pig DNA sequence from clone PigE-122C21 on chrom
sequence
Length=124577

Score = 644 bits (325), Expect = 0.0
Identities = 494/544 (90%), Gaps = 3/544 (0%)
Strand=Plus/Minus

Query	317	AGCCGCAGGTCTACGCCCCGCCTCGGCCCACCGACCGCTGGCCGTGCCGCCCTTCGCCC	376
Sbjct	55054	.....C.....G.....G.....C.....	54995
Query	377	AGCGGGAGCGCTTCCACCGCTTCCAGCCCACCTATCCGTACCTGCAGCACGAGATCGACC	436
Sbjct	54994	.....C.....C.....	54935
Query	437	TGCCACCCACCATCTCGCTGTCAGACGGGGAGGAGCCCCACCCCTACCAGGGCCCCTGCA	496
Sbjct	54934	....G.....G.....C.....G..G.....G.....	54875
Query	497	CCCTCCAGCTTCGGGACCCCGAGCAGCAGCTGGAAGTGAACCGGGAGTCGGTGCGCGCAC	556
Sbjct	54874	.G.....G.....G.....C.....G.	54815
Query	557	CCCCAAACAGAACCATCTTCGACAGTGACCTGATGGATAGTGCCAGGCTGGGCGGCCCT	616
Sbjct	54814	....G.....C.....C..C....T.....	54755
Query	617	GnnnnnnnnAGCAGTAACTCGGGCATCAGCGCCACGTGCTACGGCAGCGGCGGGCGCATGG	676
Sbjct	54754	.T.....GG.....	54695
Query	677	AGGGGCCGCGCCACCTACAGCGAGGTCATCGGCCACTACCCGGG---GTCCTCCTTCC	733
Sbjct	54694	....C.....C.....G.....C..CGCC...A.....	54635
Query	734	AGCACCAGCAGAGCAGTGGGCCGCCCTCCTTGCTGGAGGGGACCCGGCTCCACCACACAC	793
Sbjct	54634	.....C...C.....G....C.G...	54575
Query	794	ACATCGCGCCCCCTAGAGAGCGCAGCCATCTGGAGCAAAGAGAAGGATAAACAGAAAGGAC	853
Sbjct	54574	.....C..G..G.....A.G..GGC....G.....G..C.	54515
Query	854	ACCC	857
Sbjct	54514	....	54511

Score = 125 bits (63), Expect = 3e-25
Identities = 63/63 (100%), Gaps = 0/63 (0%)
Strand=Plus/Minus

Query	47	GGCAGCCCAATGTCTCCTGCACGTGCAACTGCAAACGCTCTTTGTTCCAGAGCATGGAGA	106
Sbjct	104963	.....	104904
Query	107	TCA	109
Sbjct	104903	...	104901

Score = 91.7 bits (46), Expect = 3e-15
Identities = 79/90 (87%), Gaps = 0/90 (0%)
Strand=Plus/Minus

Query	174	CACGTGCCTGCTGAGCCACTACAAGCTGTCTGCACGGTCCTTCATCAGCCGGCACAGCCA	233
Sbjct	59532	.....C..T..C.....C..G.....	59473
Query	234	GGGGCGGAGGAGAGAAGATGCCCTGTCCTC	263
Sbjct	59472	...CA..C....G.....C..G.....	59443

Score = 60.0 bits (30), Expect = 1e-05
Identities = 48/54 (88%), Gaps = 0/54 (0%)
Strand=Plus/Minus

Query 265 GAAGGATGCCTGTGGCCCTCGGAGAGCACAGTGTTCAGGCAACGGAATCCCAGAG 318
 Sbjct 55548C.....G.....G....GT...G..... 55495

Score = 48.1 bits (24), Expect = 0.047
 Identities = 27/28 (96%), Gaps = 0/28 (0%)
 Strand=Plus/Minus

Query 1 ATGCACCGCTTGATGGGGGTCAACAGCA 28
 Sbjct 105009A..... 104982

> [gi|18605637|gb|BC023092.1|](#) **U.E.G** Mus musculus cDNA clone IMAGE:3989996, partial
 Length=1079

Score = 531 bits (268), Expect = 1e-147
 Identities = 528/608 (86%), Gaps = 12/608 (1%)
 Strand=Plus/Plus

Query 178 TGCCTGCTGAGCCACTACAAGCTGTCTGCACGGTCCTTCATCAGCCGGCACAGCCAGGGG 237
 Sbjct 188A..C.....A.....CC 247

Query 238 CGGAGGAGAGAAGATGCCCTGTCTCAGAAGGATGCCTGTGGCCCTCGGAGAGCACAGTG 297
 Sbjct 248 A.....C....GA.....G.....C.....A.....T..G... 307

Query 298 TCAGGCAACGGAATCCCAGAGCCGCAGGTCTACGCCCCGCTCGGCCCACCGACCGCCTG 357
 Sbjct 308T---.....G..G....A.....T.....T....A..C 364

Query 358 GCCGTGCCGCCCTTCGCCCAGCGGGAGCGCTTCCACCGCTTCCAGCCCACCTATCCGTAC 417
 Sbjct 365 ..T.....C.....AT.....-.....A.....A.....C..C... 415

Query 418 CTGCAGCACGAGATCGACCTGCCACCCACCATCTCGCTGTTCAGACGGGGAGGAGCCCCCA 477
 Sbjct 416A..T.C.....A.....T..T..... 475

Query 478 CCCTACCAGGGCCCCCTGCACCCCTCCAGCTTCGGGACCCCGAGCAGCAGCTGGAACCTGAAC 537
 Sbjct 476A.....T....A.....G..... 535

Query 538 CGGGAGTCGGTGCGCGCACCCCCAAACAGAACCATCTTCGACAGTGACCTGATGGATAGT 597
 Sbjct 536A..T.....T...C.G.....T..A..C..C 595

Query 598 GCCAGGCTGGGCGGCCCCCTGnnnnnnnnAGCAGTAACTCGGGCATCAGCGCCACGTGCTAC 657
 Sbjct 596 A...T.....G.....T.....C..... 655

Query 658 GGCAGCGGCGGGCGCATGGAGGGGCGCCGCCACCTACAGCGAGGTCATCGGCCACTAC 717
 Sbjct 656 A.....T.....C..... 715

Query 718 CCGGGGTCCTCCTTCCAGCACCAGCAGAGCAGTGGGCGCCCTCCTTGCTGGAGGGGACC 777
 Sbjct 716 ..T..C.....A..T.AC....AT....C....A..... 775

Query 778 CGGCTCCA 785
 Sbjct 776 783

Score = 111 bits (56), Expect = 4e-21
 Identities = 71/76 (93%), Gaps = 0/76 (0%)
 Strand=Plus/Plus

Query 47 GGCAGCCCCAATGTCTCCTGCACGTGCAACTGCAAACGCTCTTTGTTCCAGAGCATGGAGA 106
 Sbjct 57G.....C.G.....CC..... 116

Query 107 TCACGGAGCTGGAGTT 122
 Sbjct 117 132